Missouri Department of Natural Resources



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: September 8, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see <u>Curdt v. Mo. Clean Water Commission</u>, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by October 8, 2006 or received in our office by 5:00 p.m. on October 11, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm, or at the Department of Natural Resources, St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

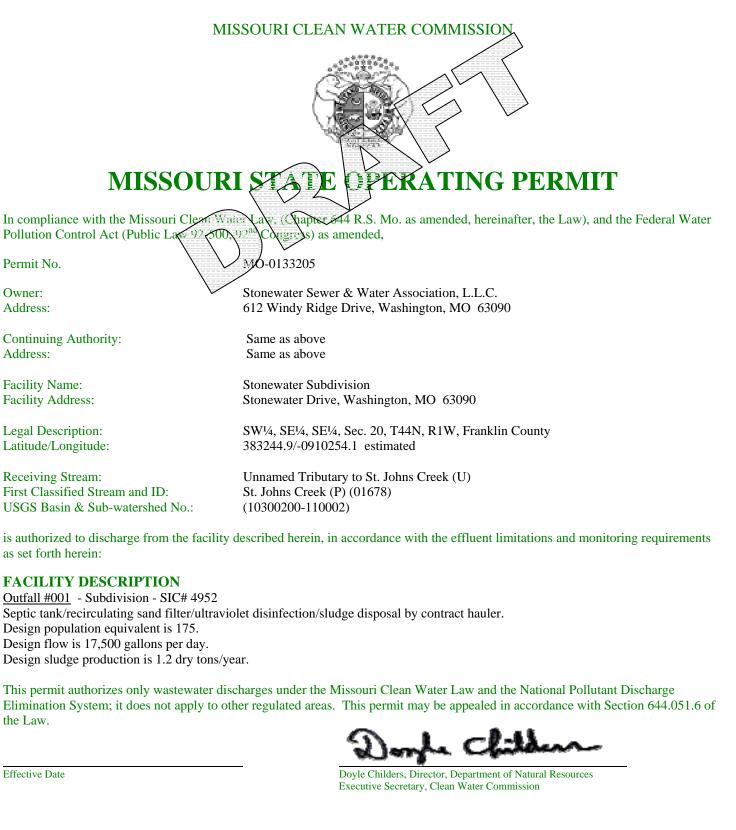
Public Notice Date: September 8, 2006 Permit Number: MO-0133205 St. Louis Regional Office						
FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER					
Stonewater Subdivision Stonewater Drive (off Holtgrewe Road) Washington, MO 63090	Stonewater Sewer & Water Association, Inc. 612 Windy Ridge Drive Washington, MO 63090					
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE					
Unnamed Tributary to St. Johns Creek(U) SW ¼, SE ¼, SE ¼, Sec. 20, T44N, R1W, Franklin County	Domestic (new)					

Mr. Bradley Ferguson, d.b.a. Thistle & Bee. L.L.C. has applied for a construction permit to install a sewage treatment plant with a design flow of 17,500 GPD. The proposed treatment plant is a recirculating sand filter followed by ultraviolet disinfection. The treatment plant is to serve Stonewater Subdivision, a proposed new subdivision with 47 single family homes located off Holtgrewe Road. The proposed discharge location is near the southwest corner boundary of Stonewater Subdivision. Effluent limits for the new facility have been established by a Water Quality Review Sheet completed by the Water Pollution Control Branch 1-3-06.

Plans and specifications for this facility have not been reviewed by the Department of Natural Resources. The design engineer, a registered Missouri professional engineer, has certified that the plans and specifications meet all requirements of 10 CSR 20-Chapter 8 Waste Treatment Design.

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES



Expiration Date MO 780-0041 (10-93)

the Law.

Effective Date

Permit No.

Owner: Address:

Address:

Mike Struckhoff, Director, St. Louis Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 4

PERMIT NUMBER MO-0133205

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND	UNITS	FINAL EFFLUENT LIMITATIONS MONITORING REQUIREMENTS				
EFFLUENT PARAMETER(S)	01,110	DAILY MAXIMUM	WEEKLY AVERAGE	MONTULY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001				7//		
Flow	MGD	*		* \	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/month	grab
Total Suspended Solids	mg/L			30	once/month	grab
pH – Units	J. Ve		7	**	once/month	grab
Ammonia as N	mgVL	*		*	once/month	grab
Temperature		*		*	once/month	grab
Fecal Coliform (Note 1)	#/100mls	1000		400	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE ______. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

Note 1 - Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.

C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to area-wide wastewater treatment system within 90 days of notice of its availability.
- 4. Changes in Discharges of Toxic Substances

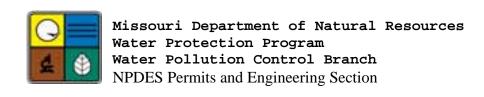
The permittee shall notify the Director as soon as it knows of hap reason to believe

- (a) That any activity has occurred or will occur which would estimine discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per kiter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 μg/L) to acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Par A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reposited in the permit application.
- 5. Report as no-discharge when a discharge does not occur during the report period.
- 6. Water Quality Standards
 - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS (continued)

- 7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
 - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal properties and approval as determined appropriate on a case-by-case lasts.

8. The permittee shall comply with any applicable requirements listed in 10 CSR 20.3 and 10 CSR. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.



Water Quality Review Sheet Facilities with Design Flow < 22,500 gpd

contact recreation

Use Attainability Analysis Conducted

water quality impact study has been conducted, this form is not applicable.

Determination of Effluent Limits

		F'	acility Info	rmati	ion				
FACILITY NAME:	Stonewate	Stonewater Subdivision PERMIT #:			New	_			
FACILITY TYPE/DESC	RIPTION:	Subdivision							_
: Dr	cark/Moreau/Locainages	outre	8-DIGIT HUC:	103	3002	COUNTY:	Frankl	in	_
Legal Descriptic Water Quai		None, new fac	: cility						_
OUTFALL	Design Flow		fall Char	acter	istic	S Effluen	IT TYPE		
001	(GPD) 17500	Secondary	Secondary			Domestic Wastewater			
	y design flow ≥ er quality revi	ew sheet				_	domesti	c waste	⊣ water, a
		Receiving		•		mation	_		
WATERBODY NAME: Unnamed trib. to St. John's Creek						CLASS	U		
Waterbody Name: St. John's Creek						CLASS	Р	_	
	e to or within ded by GSRAD)		of a losin	g stre	eam (10 CSR 20	-7.031,	Table	J or as
Discharge	to or within	two (2) miles	of a class	ified	wate:	rbody des	ignated	for w	hole boo

Lake/Reservoir 303(d) Waterbody Metropolitan No-Discharge Stream Untstanding National/State Resource Water and Drainages Thereto

If the facility discharges to any of the waterbody types below, is within an area experiencing rapid development, or if a site-specific

Permit Limits and Information

OUTFALL #001

DISCHARGE TO OR WITHIN TWO (2) MILES OF A CLASSIFIED WATERBODY DESIGNATED FOR WHOLE BODY CONTACT RECREATION

PARAMETER	Units	DAILY	Weekly	Monthly	Monitoring
PARAMETER		MAXIMUM	Average	Average	FREQUENCY
FLOW	GPD	*		*	Once/Month
TEMPERATURE	° C	*		*	Once/Month
BoD ₅	MG/L		45	30	Once/Month
TSS	MG/L		45	30	Once/Month
PН	S.U.	6 - 9		6 - 9	Once/Month
Ammonia as N	MG/L	*		*	Once/Month
FECAL COLIFORM	Note 1	1000		400	Once/Month
TRC	MG/L	0.019		0.010	Once/Month

Note 1 - Colonies/100 mL, * - Monitoring Requirement Only

Please report the date, time, and location for each parameter sampled along with the average daily flow (actual flow measured or estimated, not design flow). All the parameters should be sampled on the same day and within no more than a 2-hour period. If discharge is contingent on storm events, rainfall should be measured every time there is a discharge.

Derivation and Discussion of Limits

- Biochemical Oxygen Demand (BOD₅) 10 CSR 20-7.015(8)(B)1.
- Total Suspended Solids (TSS) 10 CSR 20-7.015(8)(B)1.
- **pH** 10 CSR 20-7.015(8)(B)2.
- Ammonia as Nitrogen Monitoring Requirement Only.
- Fecal Coliform 10 CSR 20-7.015(8)(B)4.A. All classified waters in Missouri shall be designated for Whole Body Contact Recreation. Operating permits issued following this rule will contain effluent limits for applicable bacteria criteria.
- <u>Total Residual Chlorine (TRC)</u> Effluent limitation for the protection of aquatic life against acute toxicity during critical low-flow conditions and minimal dilution [10 CSR 20-7.031(3)(I)1.]

Standard secondary treatment technology based limits for BOD5, TSS, pH, and fecal coliform are assumed to be protective of the receiving stream based on the small size of the proposed discharge. Monitoring for temperature and ammonia are included to determine whether "reasonable potential" to exceed water quality standards exists after the discharge begins. Permit will contain a "reopener clause" to address potential water quality issues should this or other monitoring or observations indicate water quality standards may be exceeded or if existing designated uses may be negatively impacted due either in whole or in part to this discharge. Should chlorine be used at this facility, the effluent shall be dechlorinated to meet the above referenced limits. Alternate TRC limits protective of aquatic life against acute and chronic toxicity may be submitted to the department for consideration.

Reviewer: Alan Moreau Date: January 3, 2006 Approver: Refaat Mefrakis